**Algebra II** Name:

**Mrs. Britton**

**7.1 – 7.3 Quiz review** Date:

**For 1 and 2, write each sum or difference as a polynomial in standard form.**

1.  2. 

3. **Sketch the graph of the function . Find any local maxima or minima to the nearest hundredth. Find the intervals over which the function is increasing and decreasing and describe the end behavior.** (10 pts total)

Local Maxima \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Local Minima \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

End behavior \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write each product as a polynomial in standard form.** (3 pts each)

4.  5. 

**Name each polynomial by degree and number of terms:** (2 pt each)

6.  7. 

8.  9. 

**Divide by using long division.** (5 pts each)

10. ****  11. ****

**Divide using synthetic division.** (4 pts each)

12. **** 13. ****